January 18, 2013

Duke Energy
Miami Fort Generating Station
11021 Brower Road
North Bend, OH 45052

Attention: Ms. Tara Thomas
Environmental Coordinator

Re: Results – **January 2013**
Low-Level Mercury Sampling
Miami Fort Generating Station
North Bend, Ohio

In accordance with your request, URS prepared the following letter report transmitting low-level mercury test results for samples collected at the Miami Fort Generating Station located in North Bend, Ohio.

The scope of work involved the sampling of intake and discharge waters from the following sources and analysis of those samples for low-level mercury.

1. River Intake
2. Station 601 (WWT Influent)
   [Samples were collected at this station one detention time (approximately 14 hours as specified by Duke Energy) before samples collected at Outfall 608]
3. Outfall 608 (WWT Effluent)
   [Samples were collected at this outfall one detention time (approximately 14 hours as specified by Duke Energy) after samples collected at station 601]
4. Outfall 002 (Pond B Discharge)

Each sample was collected following the required Method 1669: *Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels* (Sampling Method) and analyzed by Method 1631E. At the request of Duke Energy, a dissolved low-level mercury sample was collected by Method 1669 from Outfall 608 and analyzed by Method 1631E. The collected dissolved sample was filtered at the laboratory utilizing 0.45 micron filtration.

Field staff from URS' Cincinnati office conducted the sampling and TestAmerica Laboratories Inc. located in North Canton, Ohio performed the analytical procedures. The analytical procedures included the analyses of a collected sample and duplicate sample (duplicates collected at Outfall 608 and Outfall 002), field blank (field blanks collected at the River Intake, Outfall 608, and Outfall 002), and trip blank.

URS Corporation
525 Vine Street, Suite 1800
Cincinnati, Ohio 45202
Tel: 513.651.3440
Fax: 1.877.660.7720 (toll free)

The results from the **January 2 and 3, 2013** sampling events are presented in the attached Table 1. A copy of the laboratory report is enclosed with this letter.

--ooOoo--

URS is pleased to provide continued assistance to Duke Energy in the execution of their environmental monitoring requirements. If there are any questions regarding the content of this report, please do not hesitate to contact the undersigned.

Sincerely,

URS Corporation

Michael A. Wagner
Project Manager

Dennis P. Connair, C.P.G.
Principal

MAW/DPC/Duke Energy-MFS LL Hg 2013
Job No. 14951061

TABLE 1

ANALYTICAL RESULTS
LOW-LEVEL MERCURY
RIVER INTAKE, STATION 601, OUTFALL 608, AND OUTFALL 002 (POND B)

DUKE ENERGY - MIAMI FORT STATION
NORTH BEND, OHIO

Sample ID	Date Sampled / Results (ng/L, parts per trillion)					
	1/2-3/2013	2/xx/2013	3/xx/2013	4/xx/2013	5/xx/2013	6/xx/2013
River Intake	4.1					
Station 601 (7)	730,000					
Station 601 (7) [duplicate]	Not Collected					
Station 601 (8)	330,000					
Station 601 (8) [duplicate]	Not Collected					
Outfall 608	50					
Outfall 608 [duplicate]	46					
Outfall 608 [dissolved, 0.45 micron]	0.63					
APB-002	5.1					
APB-002 [duplicate]	5.3					
Field Blank (RI-FB)	1.0					
Field Blank (WWT-FB)	<0.50					
Field Blank (AP-FB)	<0.50					
Trip Blank	<0.50					

Samples collected by URS (Method 1669)
Sampling times are noted within the associated laboratory report for each collected sample
Samples analyzed by TestAmerica of North Canton, Ohio (Method 1631E).

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-19467-1
Client Project/Site: Duke MF 2013 - J13010200

For:
Duke Energy Corporation
139 East Fourth Street
Cincinnati, Ohio 45202

Attn: Ms. Sue Wallace

Denise Pohl

Authorized for release by:
1/18/2013 9:59:45 AM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com

Table of Contents

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-19467-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Duke MF 2013 - J13010200

Report Number: 240-19467-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 01/04/2013; the samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was 8.6 C.

DISSOLVED LOW LEVEL MERCURY

Sample 608 WWT DISSOLVED (240-19467-12) was analyzed for dissolved low level mercury in accordance with EPA Method 1631E. The samples were prepared on 01/09/2013 and analyzed on 01/10/2013.

No difficulties were encountered during the Low Level Mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples 601(7)WWT TOT (240-19467-4), 601(7)WWT TOT DUP (240-19467-5) and 601(8)WWT TOT (240-19467-7) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 01/07/2013.

Mercury failed the recovery criteria low for the MS/MSD of sample 240-19459-3 in batch 240-71415.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the

Job ID: 240-19467-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

spiking amount.

Refer to the QC report for details.

Method(s) 7470A: Per client instructions, the aqueous layer of the sample was pipetted off and prepared for samples 601(7)WWT TOT, 601(7)WWT TOT DUP, 601(8)WWT TOT, with care to leave behind as much of the settled solids as possible. 601(7)WWT TOT, 601(7)WWT TOT DUP, 601(8)WWT TOT.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

LOW LEVEL MERCURY

Samples RIFB (240-19467-1), RI (240-19467-2), 601(7)WWT (240-19467-3), 601(8)WWT (240-19467-6), TRIP BLANK (240-19467-8), 608 WWT FB (240-19467-9), 608 WWT (240-19467-10), 608 WWT DUP (240-19467-11), OUTFALL 002 FB (240-19467-13), OUTFALL 002 (240-19467-14) and OUTFALL 002 DUP (240-19467-15) were analyzed for Low Level Mercury in accordance with EPA Method 1631E. The samples were prepared on 01/09/2013 and analyzed on 01/10/2013.

Samples 601(7)WWT (240-19467-3)[100000X], 601(8)WWT (240-19467-6)[100000X], 608 WWT (240-19467-10)[10X] and 608 WWT DUP (240-19467-11)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Low Level Mercury analyses.

All quality control parameters were within the acceptance limits.

Method Summary

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-19467-1	RIFB	Water	01/02/13 17:00	01/04/13 09:30
240-19467-2	RI	Water	01/02/13 17:05	01/04/13 09:30
240-19467-3	601(7)WWT	Water	01/02/13 17:20	01/04/13 09:30
240-19467-4	601(7)WWT TOT	Water	01/02/13 17:25	01/04/13 09:30
240-19467-5	601(7)WWT TOT DUP	Water	01/02/13 17:30	01/04/13 09:30
240-19467-6	601(8)WWT	Water	01/02/13 17:35	01/04/13 09:30
240-19467-7	601(8)WWT TOT	Water	01/02/13 17:40	01/04/13 09:30
240-19467-8	TRIP BLANK	Water	01/02/13 00:00	01/04/13 09:30
240-19467-9	608 WWT FB	Water	01/03/13 08:20	01/04/13 09:30
240-19467-10	608 WWT	Water	01/03/13 08:25	01/04/13 09:30
240-19467-11	608 WWT DUP	Water	01/03/13 08:30	01/04/13 09:30
240-19467-12	608 WWT DISSOLVED	Water	01/03/13 08:35	01/04/13 09:30
240-19467-13	OUTFALL 002 FB	Water	01/03/13 09:00	01/04/13 09:30
240-19467-14	OUTFALL 002	Water	01/03/13 09:05	01/04/13 09:30
240-19467-15	OUTFALL 002 DUP	Water	01/03/13 09:10	01/04/13 09:30

Detection Summary

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: RIFB — Lab Sample ID: 240-19467-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	1.0		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: RI — Lab Sample ID: 240-19467-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	4.1		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: 601(7)WWT — Lab Sample ID: 240-19467-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	730000		50000		ng/L	100000		1631E	Total/NA

Client Sample ID: 601(7)WWT TOT — Lab Sample ID: 240-19467-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	2.7		0.20		ug/L	1		7470A	Total/NA

Client Sample ID: 601(7)WWT TOT DUP — Lab Sample ID: 240-19467-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	2.8		0.20		ug/L	1		7470A	Total/NA

Client Sample ID: 601(8)WWT — Lab Sample ID: 240-19467-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	330000		50000		ng/L	100000		1631E	Total/NA

Client Sample ID: 601(8)WWT TOT — Lab Sample ID: 240-19467-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	2.9		0.20		ug/L	1		7470A	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-19467-8

No Detections

Client Sample ID: 608 WWT FB — Lab Sample ID: 240-19467-9

No Detections

Client Sample ID: 608 WWT — Lab Sample ID: 240-19467-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	50		5.0		ng/L	10		1631E	Total/NA

Client Sample ID: 608 WWT DUP — Lab Sample ID: 240-19467-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	46		5.0		ng/L	10		1631E	Total/NA

Client Sample ID: 608 WWT DISSOLVED — Lab Sample ID: 240-19467-12

Detection Summary

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 608 WWT DISSOLVED (Continued) — Lab Sample ID: 240-19467-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	0.63		0.50		ng/L	1		1631E	Dissolved

Client Sample ID: OUTFALL 002 FB — Lab Sample ID: 240-19467-13

No Detections

Client Sample ID: OUTFALL 002 — Lab Sample ID: 240-19467-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	5.1		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: OUTFALL 002 DUP — Lab Sample ID: 240-19467-15

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	5.3		0.50		ng/L	1		1631E	Total/NA

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: RIFB
Date Collected: 01/02/13 17:00
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-1
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.0		0.50		ng/L		01/09/13 12:57	01/10/13 14:52	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: RI
Date Collected: 01/02/13 17:05
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-2
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.1		0.50		ng/L		01/09/13 12:57	01/10/13 15:05	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 601(7)WWT
Date Collected: 01/02/13 17:20
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-3
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	730000		50000		ng/L		01/09/13 12:57	01/10/13 15:11	100000

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 601(7)WWT TOT
Date Collected: 01/02/13 17:25
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-4
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.7		0.20		ug/L		01/07/13 13:50	01/07/13 18:04	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 601(7)WWT TOT DUP
Date Collected: 01/02/13 17:30
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-5
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.8		0.20		ug/L		01/07/13 13:50	01/07/13 18:05	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 601(8)WWT
Date Collected: 01/02/13 17:35
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-6
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	330000		50000		ng/L		01/09/13 12:57	01/10/13 15:15	100000

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 601(8)WWT TOT
Date Collected: 01/02/13 17:40
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-7
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.9		0.20		ug/L		01/07/13 13:50	01/07/13 18:10	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: TRIP BLANK
Date Collected: 01/02/13 00:00
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-8
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		01/09/13 12:57	01/10/13 15:20	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 608 WWT FB
Date Collected: 01/03/13 08:20
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-9
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		01/09/13 12:57	01/10/13 15:23	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 608 WWT
Date Collected: 01/03/13 08:25
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-10
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	50		5.0		ng/L		01/09/13 12:57	01/10/13 15:28	10

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 608 WWT DUP
Date Collected: 01/03/13 08:30
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-11
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	46		5.0		ng/L		01/09/13 12:57	01/10/13 15:31	10

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: 608 WWT DISSOLVED — **Lab Sample ID: 240-19467-12**

Date Collected: 01/03/13 08:35 — **Matrix: Water**

Date Received: 01/04/13 09:30

Method: 1631E - Mercury, Low Level (CVAFS) - Dissolved

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.63		0.50		ng/L		01/09/13 13:42	01/10/13 17:02	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: OUTFALL 002 FB
Date Collected: 01/03/13 09:00
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-13
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		01/09/13 12:57	01/10/13 15:50	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: OUTFALL 002
Date Collected: 01/03/13 09:05
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-14
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.1		0.50		ng/L		01/09/13 12:57	01/10/13 16:03	1

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: OUTFALL 002 DUP
Date Collected: 01/03/13 09:10
Date Received: 01/04/13 09:30

Lab Sample ID: 240-19467-15
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.3		0.50		ng/L		01/09/13 12:57	01/10/13 16:17	1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-71542/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 71793 — **Prep Batch: 71542**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		01/09/13 12:57	01/10/13 14:38	1

Lab Sample ID: LCS 240-71542/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 71793 — **Prep Batch: 71542**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	5.04		ng/L		101	77 - 123		

Lab Sample ID: 240-19467-11 MS — **Client Sample ID: 608 WWT DUP**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 71793 — **Prep Batch: 71542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	46		5.00	51.6	4	ng/L		107	71 - 125		

Lab Sample ID: 240-19467-11 MSD — **Client Sample ID: 608 WWT DUP**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 71793 — **Prep Batch: 71542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	46		5.00	52.2	4	ng/L		119	71 - 125	1	24

Lab Sample ID: 240-19467-14 MS — **Client Sample ID: OUTFALL 002**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 71793 — **Prep Batch: 71542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	5.1		5.00	10.1		ng/L		99	71 - 125		

Lab Sample ID: 240-19467-14 MSD — **Client Sample ID: OUTFALL 002**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 71793 — **Prep Batch: 71542**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	5.1		5.00	9.71		ng/L		92	71 - 125	4	24

Lab Sample ID: PB 240-71551/1-B PB — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 71793 — **Prep Batch: 71542**

Analyte	PB Result	PB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		01/09/13 13:42	01/10/13 16:56	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-71203/1-A
Matrix: Water
Analysis Batch: 71415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71203

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20		ug/L		01/07/13 13:50	01/07/13 17:53	1

Lab Sample ID: LCS 240-71203/2-A
Matrix: Water
Analysis Batch: 71415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71203

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	5.71		ug/L		114	81 - 123		

Metals

Prep Batch: 71203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19467-4	601(7)WWT TOT	Total/NA	Water	7470A	
240-19467-5	601(7)WWT TOT DUP	Total/NA	Water	7470A	
240-19467-7	601(8)WWT TOT	Total/NA	Water	7470A	
LCS 240-71203/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-71203/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 71415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19467-4	601(7)WWT TOT	Total/NA	Water	7470A	71203
240-19467-5	601(7)WWT TOT DUP	Total/NA	Water	7470A	71203
240-19467-7	601(8)WWT TOT	Total/NA	Water	7470A	71203
LCS 240-71203/2-A	Lab Control Sample	Total/NA	Water	7470A	71203
MB 240-71203/1-A	Method Blank	Total/NA	Water	7470A	71203

Prep Batch: 71542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19467-1	RIFB	Total/NA	Water	1631E	
240-19467-2	RI	Total/NA	Water	1631E	
240-19467-3	601(7)WWT	Total/NA	Water	1631E	
240-19467-6	601(8)WWT	Total/NA	Water	1631E	
240-19467-8	TRIP BLANK	Total/NA	Water	1631E	
240-19467-9	608 WWT FB	Total/NA	Water	1631E	
240-19467-10	608 WWT	Total/NA	Water	1631E	
240-19467-11	608 WWT DUP	Total/NA	Water	1631E	
240-19467-11 MS	608 WWT DUP	Total/NA	Water	1631E	
240-19467-11 MSD	608 WWT DUP	Total/NA	Water	1631E	
240-19467-12	608 WWT DISSOLVED	Dissolved	Water	1631E	
240-19467-13	OUTFALL 002 FB	Total/NA	Water	1631E	
240-19467-14	OUTFALL 002	Total/NA	Water	1631E	
240-19467-14 MS	OUTFALL 002	Total/NA	Water	1631E	
240-19467-14 MSD	OUTFALL 002	Total/NA	Water	1631E	
240-19467-15	OUTFALL 002 DUP	Total/NA	Water	1631E	
LCS 240-71542/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-71542/1-A	Method Blank	Total/NA	Water	1631E	
PB 240-71551/1-B PB	Method Blank	Dissolved	Water	1631E	

Analysis Batch: 71793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19467-1	RIFB	Total/NA	Water	1631E	71542
240-19467-2	RI	Total/NA	Water	1631E	71542
240-19467-3	601(7)WWT	Total/NA	Water	1631E	71542
240-19467-6	601(8)WWT	Total/NA	Water	1631E	71542
240-19467-8	TRIP BLANK	Total/NA	Water	1631E	71542
240-19467-9	608 WWT FB	Total/NA	Water	1631E	71542
240-19467-10	608 WWT	Total/NA	Water	1631E	71542
240-19467-11	608 WWT DUP	Total/NA	Water	1631E	71542
240-19467-11 MS	608 WWT DUP	Total/NA	Water	1631E	71542
240-19467-11 MSD	608 WWT DUP	Total/NA	Water	1631E	71542
240-19467-12	608 WWT DISSOLVED	Dissolved	Water	1631E	71542
240-19467-13	OUTFALL 002 FB	Total/NA	Water	1631E	71542
240-19467-14	OUTFALL 002	Total/NA	Water	1631E	71542

Metals (Continued)

Analysis Batch: 71793 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-19467-14 MS	OUTFALL 002	Total/NA	Water	1631E	71542
240-19467-14 MSD	OUTFALL 002	Total/NA	Water	1631E	71542
240-19467-15	OUTFALL 002 DUP	Total/NA	Water	1631E	71542
LCS 240-71542/2-A	Lab Control Sample	Total/NA	Water	1631E	71542
MB 240-71542/1-A	Method Blank	Total/NA	Water	1631E	71542
PB 240-71551/1-B PB	Method Blank	Dissolved	Water	1631E	71542

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: RIFB — Lab Sample ID: 240-19467-1

Date Collected: 01/02/13 17:00 — **Matrix: Water**
Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		1	71793	01/10/13 14:52	AS	TAL NC

Client Sample ID: RI — Lab Sample ID: 240-19467-2

Date Collected: 01/02/13 17:05 — **Matrix: Water**
Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		1	71793	01/10/13 15:05	AS	TAL NC

Client Sample ID: 601(7)WWT — Lab Sample ID: 240-19467-3

Date Collected: 01/02/13 17:20 — **Matrix: Water**
Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		100000	71793	01/10/13 15:11	AS	TAL NC

Client Sample ID: 601(7)WWT TOT — Lab Sample ID: 240-19467-4

Date Collected: 01/02/13 17:25 — **Matrix: Water**
Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			71203	01/07/13 13:50	LM	TAL NC
Total/NA	Analysis	7470A		1	71415	01/07/13 18:04	RT	TAL NC

Client Sample ID: 601(7)WWT TOT DUP — Lab Sample ID: 240-19467-5

Date Collected: 01/02/13 17:30 — **Matrix: Water**
Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			71203	01/07/13 13:50	LM	TAL NC
Total/NA	Analysis	7470A		1	71415	01/07/13 18:05	RT	TAL NC

Client Sample ID: 601(8)WWT — Lab Sample ID: 240-19467-6

Date Collected: 01/02/13 17:35 — **Matrix: Water**
Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		100000	71793	01/10/13 15:15	AS	TAL NC

Client Sample ID: 601(8)WWT TOT

Lab Sample ID: 240-19467-7

Date Collected: 01/02/13 17:40

Matrix: Water

Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			71203	01/07/13 13:50	LM	TAL NC
Total/NA	Analysis	7470A		1	71415	01/07/13 18:10	RT	TAL NC

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-19467-8

Date Collected: 01/02/13 00:00

Matrix: Water

Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		1	71793	01/10/13 15:20	AS	TAL NC

Client Sample ID: 608 WWT FB

Lab Sample ID: 240-19467-9

Date Collected: 01/03/13 08:20

Matrix: Water

Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		1	71793	01/10/13 15:23	AS	TAL NC

Client Sample ID: 608 WWT

Lab Sample ID: 240-19467-10

Date Collected: 01/03/13 08:25

Matrix: Water

Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		10	71793	01/10/13 15:28	AS	TAL NC

Client Sample ID: 608 WWT DUP

Lab Sample ID: 240-19467-11

Date Collected: 01/03/13 08:30

Matrix: Water

Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		10	71793	01/10/13 15:31	AS	TAL NC

Client Sample ID: 608 WWT DISSOLVED

Lab Sample ID: 240-19467-12

Date Collected: 01/03/13 08:35

Matrix: Water

Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	1631E			71542	01/09/13 13:42	AS	TAL NC
Dissolved	Analysis	1631E		1	71793	01/10/13 17:02	AS	TAL NC

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Client Sample ID: OUTFALL 002 FB

Lab Sample ID: 240-19467-13

Date Collected: 01/03/13 09:00
Matrix: Water
Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		1	71793	01/10/13 15:50	AS	TAL NC

Client Sample ID: OUTFALL 002

Lab Sample ID: 240-19467-14

Date Collected: 01/03/13 09:05
Matrix: Water
Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		1	71793	01/10/13 16:03	AS	TAL NC

Client Sample ID: OUTFALL 002 DUP

Lab Sample ID: 240-19467-15

Date Collected: 01/03/13 09:10
Matrix: Water
Date Received: 01/04/13 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			71542	01/09/13 12:57	AS	TAL NC
Total/NA	Analysis	1631E		1	71793	01/10/13 16:17	AS	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Duke Energy Corporation
Project/Site: Duke MF 2013 - J13010200

TestAmerica Job ID: 240-19467-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-13
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-13
New York	NELAP	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Wisconsin	State Program	5	999518190	08-31-13

Chain of Custody Record

TestAmerica Laboratory location: N. CANTON, OHIO

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: DUKE ENERGY	Client Project Manager: M Wagner (URS CORP)	Site Contact: T. THOMAS	Lab Contact:	COC No: 054068
Address: MIAMI FORT STATION	Telephone: 513-651-3440	Telephone: (513) 314-8055	Telephone:	1 of 2 COCs
City/State/Zip: N. BEND, OHIO	Email: mike.wagner@urs.com	Analysis Turnaround Time (CALENDAR days)	Analyses	For lab use only
Phone:		TAT (if different from below) CONTRACT		Walk-in client: ☐
Project Name: DUKE MF LLHg 2013	Method of Shipment/Carrier:	☐ 3 weeks		Lab pickup: ☐
Project Number: 14951061	Shipping/Tracking No:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab sampling: ☐
PO#				

Cincinnati
210501

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite / Grab	LLHg	TOTAL Hg
RI FB	01-02-13	1700		X									2		N	G	X	
RI		1705		X									4				X	
601(7) WWT *		1720		X									4				X	
601(7) WWT TOT *		1725		X					1									X
601(7) WWT TOT DUP *		1730		X					1									X
601(8) WWT *		1735		X									4				X	
601(8) WWT TOT *	↓	1740		X					1							↓		X
TRIP BLANK	—	—		X									2			—	X	
608 WWT FB	01-03-13	0820		X									2			G	X	
608 WWT	↓	0825		N									4		↓	↓	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

* POTENTIALLY ELEVATED Hg

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	URS CORP	01-03-13 / 1100			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	1/4/13 930

TAL 0018- 1 (04/10)

1/18/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

TestAmerica Laboratory location: N. CANTON, OHIO

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: DUKE ENERGY	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 054067
Address: MIAMI FORT STATION	Telephone:	Telephone:	Telephone:	2 of 2 COCs
City/State/Zip:	Email: See page 1	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below ___ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name:	Method of Shipment/Carrier:			
Project Number: 1495106 I	Shipping/Tracking No:			Job/SDG No:
PO #				

Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	LLHg	Dissolved LLHg									Sample Specific Notes / Special Instructions:
608 WWT Dup	01-03-13	0830		X									4		N	G	X										
608 WWT DISSOLVED	↓	0835		X									4		↓	↓		X									
OUTFALL 002 FB	↓	0900		X									2		↓	↓	X										
OUTFALL 002	↓	0905		X									4		↓	↓	X										
OUTFALL 002 Dup	↓	0910		X									4		↓	↓	X										

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For ___ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	URS CORP	01-03-13 / 1100			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 1/4/13 930

TAL 0018-1 (04/10)

Analytical Laboratory Request Form (ARF)

(1) Complete all yellow sections of this form. Move through by striking the "TAB" key.	
(2) Save the file & e-mail to:	labcustomer@duke-energy.com
Questions / Problems Call:	704-875-5245

Customer Information

Name	Office Phone	Cell Phone
Mike Wagner	513 651 3440	NA
Fax	**e-Mail Address**	
513 651 3452	mike.wagner@urs.com	

Accounting Fields

*** Only complete if specific charging to capital or other special projects is needed. Include field type and specific field entry. ***	Field Type	Specific Field

Sampling Information

Sampling Personnel / Contractor	Scheduled Sampling Date	Date Sample Kit Needed
URS Field Staff Geologist / URS	1/ 3-4 /2013	12/28/2012

Shipping Address for Kit

Name	Phone	Mail Code
Mike Wagner	513 651 3440	NA
Street Address - street address and town needed	**State**	**Zip Code**
525 Vine Street Suite 1800, Cincinnati, Ohio 45202	Ohio	45202

Reporting

Report Due Date	Additional Reports - .pdf file w/ Basic QC and EDD (spreadsheet) is Standard	
1/18/2013	Standard	
Report To (e-Mail Address 1)	**Report To (e-Mail Address 2)**	**Report to (e-Mail Address 3)**
mike.wagner@urs.com	tara.thomas@duke-energy.com	sue.wallace@duke-energy.com

Project Specifics

Project Name		Program Type
Miami Fort LL Hg 2013		NPDES Monitoring
Site, Location or Station	**State**	**Approximate Number of Days Sampling is Scheduled**
Miami Fort Station, Hamilton Co.	Ohio	2

Notes, Special Requests, Required Contract Lab to use, etc. **(LIMS Job Number-Duke Lab Provides)**

TestAmerica - North Canton, Ohio (contact - Denise Pohl) Note - Data report (prepared by URS) due to Miami Fort Station by end of month of sampling. January 2013 Event

Bottles	Matrix	Variables, Methods
8 (four vial package)	water	(seven locations) LL Hg (collected by method 1669, analysis by Method 1631)
		(one location) Dissolved LL Hg (0.45 micron, filtered at laboratory)(collected by method 1669, analysis by Method 1631)
3 field blanks	water	LL Hg (collected by method 1669, analysis by Method 1631)
1 trip blank	water	LL Hg (Method 1631)
3	water	Total Hg (Method 7470A)

Jan 09

Coolers - 537, TA Nashville

TestAmerica Canton Sample Receipt Form/Narrative Login # : 19467

Client Duke Site Name _____ By: _____

Cooler Received on 1-4-13 Opened on 1-4-13 (Signature)

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # 5217 Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1	(CF –2 °C) Observed Sample Temp._____°C	Corrected Sample Temp._____°C	☐ Multiple on Back
IR GUN# 4G	(CF 0 °C) Observed Sample Temp._____°C	Corrected Sample Temp._____°C	
IR GUN# 5G	(CF 0 °C) Observed Sample Temp._____°C	Corrected Sample Temp._____°C	
IR GUN# 8	(CF 0 °C) Observed Sample Temp. 8.6 °C	Corrected Sample Temp. 8.6 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	~~Yes~~	No
-Were custody seals on the outside of the cooler(s) signed & dated?	~~Yes~~	No NA
-Were custody seals on the bottle(s)?	Yes	~~No~~
3. Shippers' packing slip attached to the cooler(s)?	~~Yes~~	No
4. Did custody papers accompany the sample(s)?	~~Yes~~	No
5. Were the custody papers relinquished & signed in the appropriate place?	~~Yes~~	No
~~6. Did all bottles arrive in good condition (Unbroken)?~~	~~Yes~~	No
7. Could all bottle labels be reconciled with the COC?	~~Yes~~	No
8. Were correct bottle(s) used for the test(s) indicated?	~~Yes~~	No
9. Sufficient quantity received to perform indicated analyses?	~~Yes~~	No
10. Were sample(s) at the correct pH upon receipt?	~~Yes~~	No NA
11. Were VOAs on the COC?	Yes	~~No~~
12. Were air bubbles >6 mm in any VOA vials?	Yes	No ~~NA~~
13. Was a trip blank present in the cooler(s)?	~~Yes~~	No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

High temp ok

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 051012-H2SO4; Sodium Hydroxide Lot# 121809 -NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preserved added to sample(s)? _____

Client ID	pH	Date	Initials
6017	L2	1-4-13	CSL
6017 DUP	L2	"	"
6018	L2	"	"

Cooler #	Observed Sample Temp. °C	Corrected Sample Temp. °C	IR #	Coolant